

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inv n t r(s): Dhruva Ranjan Chakrabarti, et al.

Confirmation N .:

Application No.:

Examiner: not yet known

Filing Date: Oct. 31, 2003

Group Art Unit:

Title: SCALABLE CROSS-FILE INLINING THROUGH LOCALITY-BASED TRANSFORMATION ORDERING

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ( ) under 37 CFR 1.97 (c) together with either a:  
( ) Statement under 37 CFR 1.97(e), or  
( ) a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ( ) under 37 CFR 1.97 (d) together with a:  
( ) Statement under 37 CFR 1.97(e)(1) or (2), and  
( ) a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service ~~as first class mail~~ in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: Oct. 31, 2003

OR

( ) I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_ Number of pages: \_\_\_\_\_

Typed Name: James K. Okamoto

Signature: James K. Okamoto

Respectfully submitted,

Dhruva Ranjan Chakrabarti, et al.

By James K. Okamoto

James K. Okamoto to

Attorney/Agent for Applicant(s)

Reg. No. **40,110**

Date: **Oct. 31, 2003**

Telephone No.: **(408) 436-2110**

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200312985-1

APPLICATION NO.

CONFIRMATION NO.

APPLICANT

Dhruva Ranjan Chakrabarti, et al.

FILING DATE

Oct. 31, 2003

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	5,428,793	June 27, 1995	Odnert, et al.	
	1B	5,555,417	Sept 10, 1996	Odnert, et al.	
	1C	5,920,723	July 06, 1999	Peyton Jr., et al.	
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	ANDREW AYERS, et al., "Aggressive InLining", ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI), 1997, pages 134-145.
	1R	ANDREW AYERS, et al., "Scalable Cross-Module Optimization", ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI), 1998, pages 301-312.
	1S	POHUA P. CHANG, et al., "Profile-guided Automatic InLine Expansion for C Programs", 1992, Software-Practice and Experience Vol. 22 (5), pages 349-369.

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200312985-1

APPLICATION NO.

CONFIRMATION NO.

APPLICANT

Dhruva Ranjan Chakrabarti, et al.

FILING DATE

Oct. 31, 2003

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1T	J. EUGENE BALL, "Predicting the Effects of Optimization on a Procedure Body", ACM SIGPLAN, 1979, pages 214-220.
1U	OWEN KASER, et al., "Evaluating InLining Techniques", August 14, 1996, pages 1-15.
1V	MATTHEW ARNOLD, et al., "A Comparative Study of Static and Profile-Based Heuristics for InLining", ACM, 2000, pages 52-64.

EXAMINER

DATE CONSIDERED

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200312985-1

APPLICATION NO.

CONFIRMATION NO.

APPLICANT

Dhruva Ranjan Chakrabarti, t al.

FILING DATE

Oct. 31, 2003

GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A				
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1W	PENG ZHAO, et al., "To InLine or Not to InLine? Enhanced InLining Decisions", to appear at the 16th Workshop on Language and Compilers for Parallel Computing (LCPC03), October 2003.
1X	TOSHIO SUGANUMA, et al., "An Empirical Study of Method InLining for a Java Just-In-Time Compiler", Proceedings of the 2nd Java Virtual Machine Research and Technology Symposium, August 2002.
1Y	

EXAMINER

DATE CONSIDERED